

## ORTHCOMING PUBLICATIONS

JANUARY, 2005, Vol 79, No. 1

### **Condensed Matter & Materials Physics**

Observations of dislocation behaviour on different crystallographic faces of solution-grown sodium sulphate single crystals by chemical etching

S KARAN AND S P SEN GUPTA

Preparation of pure ZnO films having an almost one plane of growth

H H AFIFY, S EL-HEFNAWI, A ELIWA, M ABDEL-NABY AND N M AHMED

*Ab initio* studies on band structure of  $\text{CaTiO}_3$

H SALEHI

Electrical conductivity and dielectric properties of  $\text{KH}_2\text{PO}_4$  crystals modified with KBr and NaBr

R ANANDA KUMARI AND R CHANDRAMANI

Hydrothermal synthesis and characterization of cobalt (III) hydrated pyrophosphate crystals :  $2(\text{CoHP}_2\text{O}_7)$

M J MAHESH, G S GOPALAKRISHNA, K G ASHAMANJARI AND J SHASHIDHARA PRASAD

Effect of  $\text{Mn}^{4+}$  substitution on magnetic behaviour of cobalt ferrite

K P THUMMER, M C CHHANTBAR, K B MODI AND H H JOSHI

Relationship between isothermal bulk modulus and volume expansion ratio for ionic solids

S K SRIVASTAVA

$\text{Ce}^{3+}$  and  $\text{Tb}^{3+}$  emission in CaS phosphors

VIJAY SINGH AND MANOJ TIWARI

On the angular and polarization distribution of the Mossbauer radiation  $|3/2\rangle \rightarrow |1/2\rangle$  in single crystals

SIKANDER ALI AND ALIMUDDIN

### **Particle Physics**

Particular solution of DGLAP evolution equation in next-to-leading order and  $x$ -distributions of deuteron structure functions at low- $x$

R RAJKHOWA AND J K SARMA

### **Notes**

Thermoluminescence studies of CaS phosphors activated by  $\text{Ce}^{3+}$ ,  $\text{Na}^+$  and  $\text{Ag}^+$

MANOJ TIWARI, VIJAY SINGH, S J DHOBLE AND R N DUBEY

**Frustrated magnetic moments in small metal clusters**

**MANICKAM MAHENDRAN**

**X-ray structural analysis of 1H, 4H-terahydroquinolizino-(9, 9a, 1gh)coumarin**

**RAJNIKANT, DINESH, MOUSMI, BABU VARGHESE AND BANDHAN SHARMA**

**XRD, thermal and FTIR studies on gel-grown gypsum crystals**

**E RAMACHANDRAN AND S NATARAJAN**

**Some properties of BSCCO-Ag added high temperature superconductors**

**B N DOLE AND S S SHAH**

**Growth and characterization of NbSe<sub>2</sub> single crystals**

**RAJIV VAIDYA, MEHUL DAVE, S G PATEL AND A R JANI**

**A local potential with analytical distorted wave approximation model for elastic scattering of pions from a nucleus**

**REZA SAFARI**